City of Morro Bay



Financial Plan & Rate Analysis for a New Water Reclamation Facility

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City of Morro Bay Financial Plan & Rate Analysis for a New Water Reclamation Facility

1. Background

The City of Morro Bay is located on the Central California coast in San Luis Obispo County, about 12 miles northwest of the City of San Luis Obispo. The City has a population of approximately 10,500. The City provides water and wastewater service to residents and businesses within the City.

The City's existing wastewater treatment plant has reached the end of its useful life and needs to be rebuilt due to a number of factors including age and condition, as well as capacity and regulatory deficiencies. The existing plant was originally built in 1953 and last underwent major upgrades in 1984. The existing plant does not meet current wastewater discharge permit requirements and needs to be rebuilt to comply with the City's new Waste Discharge Permit requirement within a maximum of five years, as required by the Central Coast Regional Water Quality Control Board (RWQCB). Failure to meet the RWQCB's permit requirements can result in substantial fines.

Adding to the City's challenges, the wastewater treatment plant cannot be rebuilt at its current location. The existing plant is located on the coast in a flood plain and tsunami inundation zone. In 2013, the California Coastal Commission denied the City's development permit to build a new treatment plant near the existing site. In 2015 the Commission issued Sea Level Rise Policy Guidance that strongly discourages siting facilities in areas where they could be adversely affected by the impacts of sea level rise over the full life of the structure. The current location is also inconsistent with other provisions of the Coastal Act and Local Coastal Program.

Based on evaluation of a wide range of project and site alternatives, the City is now moving forward with a new Water Reclamation Facility (WRF) at a proposed site near the intersection of South Bay Boulevard and Highway 1, approximately 1 mile east of downtown Morro Bay. In June 2018, pursuant to a competitive proposal process, the City selected a team to construct the new WRF via a design-build process. The City is currently undergoing negotiations with the selected design-build team.

The full WRF project includes a new wastewater treatment plant, pumping facilities, a pipeline to convey wastewater to the new WRF, and water recycling facilities for potable reuse. Water recycling facilities are included in the WRF project for a number of reasons including:

• The City predominantly relies on imported water from the State Water Project for the

- community's water supply. Recycled water provides the City with a relatively drought-proof local supply that improves water supply security and reliability.
- While water recycling infrastructure adds significant cost to the WRF project, it also helps
 make the WRF project eligible and competitive for grants and low-interest-rate loans.
 Financial analysis indicates that the impact of the added costs of the recycled water facilities
 would be largely offset by the financial benefits of subsidized financing available with
 recycling.
- Water recycling was identified as a community goal for the new WRF.

2. Study Overview

Bartle Wells Associates (BWA) was retained to develop a financial plan and rate recommendations to support funding for the new WRF as well ongoing operating and capital improvement needs. This report presents findings and rate recommendations developed under a few financial scenarios. The proposed WRF Facility Surcharges were developed with input from City staff, Carollo Engineers, and the City's Blue Ribbon Commission -- a group of Morro Bay residents with substantial financial and business experience that was established to provide independent review and help evaluate the costs and potential rate increases needed to support the new WRF.

The City's water and sewer utilities are financially self-supporting enterprises funded primarily from monthly service charges. *In order to secure financing for the WRF, the City will need to first adopt utility rates adequate to repay debt service for the new WRF.*

BWA developed financial projections and rate recommendations under four alternative scenarios.

- A. Base Case Scenario: This scenario assumes the WRF project is funded by a combination of WIFIA financing, revenue bonds, and pay-as-you go cash funding from rates and fund reserves. Under this scenario, the City would levy the full WRF Facility Surcharges beginning fiscal year 2019/20.
- B. **Phase-In Scenario**: This scenario is similar to the Base Case Scenario, but assumes the WRF Facility Surcharges would be phased in from fiscal year 2019/20 through 2021/22.
- C. **SRF Financing Scenario:** This scenario assumes the City obtains low-rate SRF financing, instead of bonds, to supplement the anticipated WIFIA loan and cash funding.
- D. **No Water Recycling Scenario:** This scenario eliminates the water recycling facilities resulting in a reduced-cost, wastewater-only WRF project, and also assumes no WIFIA financing with all project funding from bonds and pay-as-you-go cash contributions.

3. Prior Rate Increases & Need for WRF Surcharges

In 2015, the City adopted 5-years of water and sewer rate increases. The adopted rates were designed to phase in funding to support the cost of providing utility service and help provide funding for capital improvements to aging infrastructure. As of July 1, 2018, the City will have implemented 4 of the 5 years of adopted rate increases. Prior to these rate increases, the City had not adopted any water rate increases in 20 years but had periodically adopted some sewer rate adjustments.

The previously-adopted sewer rates were also designed to help support funding for a new wastewater treatment plant assuming Morro Bay would need to fund approximately \$56 million of project costs, equal to 75% of an estimated \$75 million wastewater treatment plant that would be jointly owned with Cayucos funding the remaining 25%. The \$75 million preliminary cost estimate from 2015 was based on a conceptual design and parametric estimates.

In addition, the adopted rates were not designed to fund recycled water facilities, which were previously expected to be a future phase of the project. The adopted sewer rates also assumed the City would be able to obtain low-rate financing from the State Revolving Fund (SRF) for all debt financing needs of the new treatment plant. SRF financing was previously fairly easy to obtain but is now substantially more difficult to secure.

The adopted rates substantially strengthened the financial condition of the City's water and sewer utilities but do not provide adequate funding to support each utility's share of costs for the new WRF. Additional water and sewer charges are needed to provide adequate funding for each utility's share of debt service for the WRF project.

BWA recommends the City adopt new water and sewer WRF Facility Surcharges to supplement the previously-adopted rates in order to provide adequate funding for WRF-related debt repayment. These would be separate surcharges levied in addition to the City's adopted utility rates.

4. Summary of Proposed WRF Facility Surcharges

Table 1 shows proposed WRF Facility Surcharges for single family residential customers under the four financial scenarios. Note that the surcharges shown under the Phase-In Scenario are maximum surcharges with full phase-in starting 2022/23. Surcharges for residential customers are structured as fixed monthly charges. Surcharges for all customer classes are detailed later in this report.

Table 1 – Summary of Maximum Single Family Residential WRF Facility Surcharges

| | Base Case | Phase-In | WIFIA & SRF | No Recycling* |
|------------------------------|---------------|----------------|---------------|---------------|
| | WRF+Recycling | Base Case with | WRF+Recycling | No Recycling |
| | WIFIA+Bonds | Rate Phase In | WIFIA+SRF | All Bonds |
| WRF Facility Surcharges | | | | |
| Sewer WRF Facility Surcharge | \$25.00 | \$27.00 | \$20.00 | \$44.00 |
| Water WRF Facility Surcharge | 16.00 | 17.00 | 14.00 | |
| Total | 41.00 | 44.00 | 34.00 | 44.00* |

^{*} Under the No Recycling Scenario, the fifth and final year of the previously-adopted water rate increases would not need to be implemented, resulting in a \$4.50 reduction in the monthly water bill for a typical single family home using 5 units of water per month compared to other scenarios. This results in a net reduction of \$1.50 per month compared to the Base Case Scenario.

5. Key Alternative for Implementing & Billing WRF Facility Surcharges

The City has options for implementing and billing the proposed WRF Facility Surcharge as discussed below.

Timing of Surcharge Implementation

At this stage, the City is considering two approaches regarding the timing of implementing the WRF Facility Surcharges, including:

- Front-Load Levy the full WRF Facility Surcharges starting fiscal year 2019/20 (Base Case Scenario)
- Phase-In Phase-in the WRF Facility Surcharges in upcoming years (Phase-In Scenario)

The Phase-In Scenario results in a lower level of surcharge revenues than the front-loaded Base Case Scenario until the surcharges are fully phased-in. The Phase-In Scenario results in approximately \$4.3 million less of pay-as-you-go cash funding which results in the need for a corresponding increase in debt financing, higher annual debt service, and ultimately a higher surcharge.

Method of Bill Collection

The City currently bills customers monthly via a combined utility bill for water and sewer service. The City is considering two methods of bill collection for recovering the WRF Facility Surcharges, including:

- Monthly Billing Add the WRF Facility Surcharges as a new line-item in the monthly bills.
- **Property Tax Rolls** Recover the proposed WRF Facility Surcharges on the property tax rolls.

The WRF Facility Surcharges would be the same under both billing alternatives and in many cases would be paid by the same people; only the method of billing and collection would vary. Additional information regarding potential billing on the property tax rolls is included later in this report.

Community & Advisory Board/Committee Input Received

The City conducted a community workshop to discuss the WRF project and proposed rate surcharges on Saturday, June 23, 2018. During the workshop, community members were requested to provide their preferences regarding: a) either phasing in or front-loading the WRF Facility Surcharges, and b) billing the WRF Facility Surcharges as a separate line-item on the monthly utilities bill vs. submitting the surcharges for recovery via the property tax rolls. Community members who participated at the workshop were fairly evenly split regarding their preferences on both the potential phase-in and method of bill collection.

The same feedback was sought from members of the Public Works Advisory Board (PWAB), Water Reclamation Facility Citizens Advisory Committee (WRFCAC), and Citizens Finance Advisory Committee (CFAC) during a joint meeting between these three committees held on June 25, 2018. Advisory board and committee members slightly favored phasing in the surcharges and strongly favored including the surcharges on the monthly utilities bill, not on the property tax rolls.

6. Total Monthly Water & Sewer Charges with WRF Facility Surcharges

Tables 2A and 2B show the total combined monthly water and sewer charges – *including water and sewer service charges and the proposed WRF Facility Surcharges* – for a typical single family home using 5 units (hcf) of water use per month under the Base Case and Phase-In Scenarios. Under the Phase-In Scenario, pay-as-you-go cash funding for the WRF Project generated by the Surcharges would be reduced by approximately \$4.3 million compared to the Base Case Scenario. This results in the need for a corresponding amount of additional debt financing which results in slightly higher debt service and a higher maximum surcharge.

Note that monthly single family residential use has averaged about 4.6 units (hcf) over the past year. BWA estimates that roughly 2/3rds of single family residential bills are at or below 5 hcf.

Table 2A – <u>Base Case Scenario</u>: Total Monthly Charges with WRF Surcharges

Typical Single Family Home with 5 Units (hcf) Monthly Water Use

| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
|------------------------------|---------|---------|---------|---------|---------|
| Monthly Utility Bill | | | | | |
| Sewer Monthly Charge | \$77.00 | \$83.00 | \$83.00 | \$83.00 | \$83.00 |
| Water Monthly Charge | 62.50 | 67.00 | 67.00 | 67.00 | 67.00 |
| Subtotal Monthly Bill | 139.50 | 150.00 | 150.00 | 150.00 | 150.00 |
| WRF Facility Surcharges | | | | | |
| Sewer WRF Facility Surcharge | - | 25.00 | 25.00 | 25.00 | 25.00 |
| Water WRF Facility Surcharge | - | 16.00 | 16.00 | 16.00 | 16.00 |
| Subtotal Monthly Bill | | 41.00 | 41.00 | 41.00 | 41.00 |
| Total Monthly Charges | 139.50 | 191.00 | 191.00 | 191.00 | 191.00 |

Table 2B – Phase-In Scenario: Total Monthly Charges with WRF Surcharges

Typical Single Family Home with 5 Units (hcf) Monthly Water Use

| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
|------------------------------|---------|---------|---------|---------|---------|
| Monthly Utility Bill | | | | | |
| Sewer Monthly Charge | \$77.00 | \$83.00 | \$83.00 | \$83.00 | \$83.00 |
| Water Monthly Charge | 62.50 | 67.00 | 67.00 | 67.00 | 67.00 |
| Subtotal Monthly Bill | 139.50 | 150.00 | 150.00 | 150.00 | 150.00 |
| WRF Facility Surcharges | | | | | |
| Sewer WRF Facility Surcharge | - | 9.00 | 18.00 | 27.00 | 27.00 |
| Water WRF Facility Surcharge | | 8.00 | 12.00 | 17.00 | 17.00 |
| Subtotal Monthly Bill | | 17.00 | 30.00 | 44.00 | 44.00 |
| Total Monthly Charges | 139.50 | 167.00 | 180.00 | 194.00 | 194.00 |

7. WRF Project Costs & Timing

Table 3 shows projected WRF project capital and operating costs based on the winning design-build proposal received by the City (which is subject to final negotiation) and engineering cost estimates provided by Carollo Engineers. The WRF project is currently estimated to cost a total of \$122.8 million including all expenses incurred to date.

Table 3 – WRF Project Cost Estimates

| | Construction | Soft | Project | Total | | | |
|--|---|------------------|-----------------------|-----------------|--|--|--|
| | Costs ¹ | Costs | Reserves ² | Cost | | | |
| Projected Capital Costs | | | | | | | |
| Includes permitting, design, procure | ment, constructi | ion, and managen | nent. | | | | |
| Water Reclamation Facility | \$62,616,000 | \$8,489,000 | \$3,131,000 | \$74,236,000 | | | |
| Conveyance Facilities | 21,086,000 | 2,820,000 | 2,343,000 | 26,249,000 | | | |
| Offsite Recycled Water Facilities ³ | 8,592,000 | 2,648,000 | 859,000 | 12,099,000 | | | |
| General Program Implementation | <u>0</u> | 5,160,000 | <u>0</u> | 5,160,000 | | | |
| Subtotal | 92,294,000 | 19,117,000 | 6,333,000 | 117,744,000 | | | |
| Prior Project Expenditures | 0 | 5,063,000 | | 5,063,000 | | | |
| Total | 92,294,000 | 24,180,000 | | 122,807,000 | | | |
| Annual Operating & Maintenance E | Annual Operating & Maintenance Expenses | | | | | | |
| Projected online starting January 1, 2022. | | 2018 Estimate | Cost Inflation | 2022 Projection | | | |
| WRF Wastewater Operations | | \$2,383,000 | \$299,000 | \$2,682,000 | | | |
| Conveyance to WRF | | 246,000 | 31,000 | 277,000 | | | |
| Recycled Water Operations | | 193,000 | 24,000 | 217,000 | | | |

Source: Carollo Engineers, WRF Program Revised Cost Estimates as of 6/20/18.

Without recycled water infrastructure, the total cost of project is reduced by approximately \$20 million to an estimated total of \$102.2 million. The reduction includes elimination of \$12 million of Offsite Recycled Water Facilities, and an \$8 million reduction in costs for the wastewater treatment plant. Tables detailing financial projections for a No Water Recycling Scenario are included in the appendix.

¹ Construction costs Include estimated cost inflation to construction mid-point where applicable.

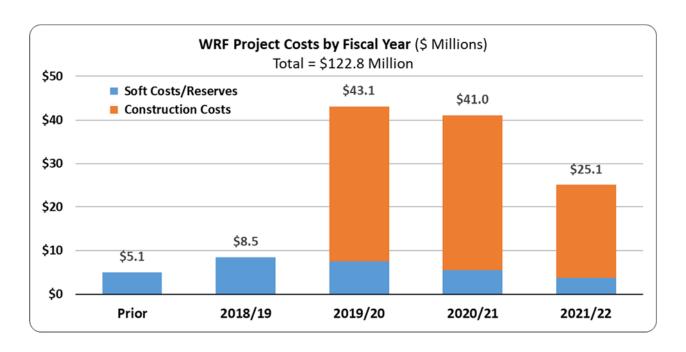
² Project Reserves are placeholder estimates for additional project funding requirements (e.g. outside project scope) with funding subject to City control.

³ Offsite Recycled Water Facilities assume West alternative and include property acquisition estimate.

Table 4 shows projected WRF costs by fiscal year. The City estimates that a little over \$5 million will have been spent by the end of fiscal year 2017/18, with future costs totaling about \$117.7 million including estimated cost inflation to the projected mid-point of construction for each project component. The City anticipates incurring costs primarily for design in 2018/19, with construction occurring during the subsequent 3 fiscal years. The new wastewater treatment facility is targeted for completion by October 2021 with operations targeted to start January 2022.

Table 4 - Projected WRF Costs by Fiscal Year

| | Prior Costs | | | Projected Costs | | | |
|------------------|-------------|-----------|-----------|-----------------|------------|------------|-------------|
| | Prior | 2016/17 | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 |
| Soft Costs | 2,800,000 | 1,423,000 | 840,000 | 8,490,000 | 5,218,000 | 3,160,000 | 2,248,000 |
| Construction | | | | | 35,512,000 | 35,512,000 | 21,271,000 |
| Project Reserves | | | | | 2,377,000 | 2,377,000 | 1,579,000 |
| Annual Total | 2,800,000 | 1,423,000 | 840,000 | 8,490,000 | 43,107,000 | 41,049,000 | 25,098,000 |
| Subtotal | | | 5,063,000 | | | | 117,744,000 |
| Total | | | | | | | 122,807,000 |



8. Water vs. Wastewater Cost Allocation

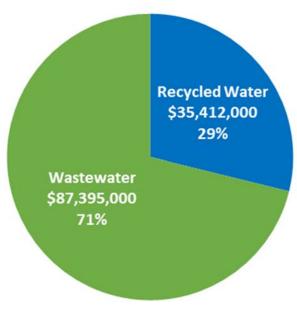
Tables 5 shows an allocation of WRF project costs to water vs. wastewater based on analysis developed by Carollo Engineers. Costs allocated to the water utility include all facility costs related to recycled water production that are in excess of the costs that would be incurred for constructing a new WRF for wastewater only. Each utility is responsible for funding its share of project costs.

Table 5 – WRF Project Cost Allocation to Water vs. Wastewater

| Project Component | Total Cost | Water | | Wastewa | ter |
|---------------------------------|------------------|----------------|-------------|------------------|--------------|
| Water Reclamation Facility | \$74,236,000 | \$21,528,000 | 29.0% | \$52,708,000 | 71.0% |
| Conveyance Facilities | 26,249,000 | 0 | 0.0% | 26,249,000 | 100.0% |
| Offsite Recycled Wtr Facilities | 12,099,000 | 12,099,000 | 100.0% | 0 | 0.0% |
| General Program Implementation* | 5,160,000 | 1,541,000 | 29.9% | 3,619,000 | 70.1% |
| Prior Project Expenditures | <u>5,063,000</u> | <u>244,000</u> | <u>4.8%</u> | <u>4,819,000</u> | <u>95.2%</u> |
| Total | 122,807,000 | 35,412,000 | 28.8% | 87,395,000 | 71.2% |
| | | | | | |

^{*} Allocated based on proportionate share of total future facility costs.





9. WRF Project Funding Sources

The City anticipates funding the WRF project via a combination of long-term debt and pay-as-you-go cash funding provided by utility rates and available fund reserves. The Base Case Scenario assumes the City secures WIFIA funding for the maximum allowable 49% of the WRF project cost, with remaining funding provided by cash funding and revenue bonds. Table 6 and the chart below show a breakdown of anticipated funding sources for the WRF project under the Base Case Scenario. For comparison, the Phase-In Scenario results in \$4.3 million of reduced cash funding for the WRF and a corresponding \$4.3 million increase in Revenue Bond financing.

Table 6A – Base Case: WRF Project Funding Sources

| | Total | % of Ttl | Water | % of Source | Wastewater | % of Source |
|----------------------------------|------------------|----------|----------------|-------------|------------------|--------------|
| WRF Total Project Costs | \$122,807,000 | | \$35,412,000 | 28.8% | 87,395,000 | 71.2% |
| Projected Funding Sources | | | | | | |
| WIFIA Loan | 60,175,000 | 49.0% | 17,352,000 | 28.8% | 42,823,000 | 71.2% |
| SRF Planning Loan | 10,300,000 | 8.4% | 2,970,000 | 28.8% | 7,330,000 | 71.2% |
| Revenue Bonds | 24,700,000 | 20.1% | 10,246,000 | 41.5% | 14,454,000 | 58.5% |
| Sewer New Cash Funding | 17,969,000 | 14.6% | 0 | 0.0% | 17,969,000 | 100.0% |
| Water New Cash Funding | 4,600,000 | 3.7% | 4,600,000 | 100.0% | 0 | 0.0% |
| Prior Cash Contributions | <u>5,063,000</u> | 4.1% | <u>244,000</u> | <u>4.8%</u> | <u>4,819,000</u> | <u>95.2%</u> |
| Total | 122,807,000 | 100.0% | 35,412,000 | 28.8% | 87,395,000 | 71.2% |



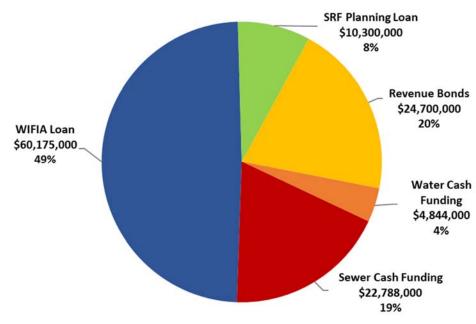


Table 7 shows a breakdown of anticipated funding sources for the WRF Project by fiscal year under the Base Case Scenario.

Table 7 – Base Case: WRF Funding Sources by Year

| | Prior | 2018/19 | 2019/20 | 2020/21 | 2021/22 |
|-------------------------|-------------|-------------|--------------|--------------|--------------|
| WRF Project Costs | \$5,063,000 | \$8,490,000 | \$43,107,000 | \$41,049,000 | \$25,098,000 |
| WRF Funding Sources | | | | | |
| SRF Planning Loan | | 5,800,000 | 4,500,000 | | |
| WIFIA Loan | | | 31,100,000 | 29,075,000 | |
| Revenue Bonds | | | | 7,400,000 | 17,300,000 |
| Sewer Cash Contribution | 4,819,000 | 2,390,000 | 5,307,000 | 3,374,000 | 6,898,000 |
| Water Cash Contribution | 244,000 | 300,000 | 2,200,000 | 1,200,000 | 900,000 |
| Total | 5,063,000 | 8,490,000 | 43,107,000 | 41,049,000 | 25,098,000 |

The City has been pursuing state and federal grants and low-interest-rate loans to help finance the WRF project. The City has been successful in obtaining commitments for a substantial amount of low-interest-rate financing to date and continues to seek additional financial assistance. The City has retained Kestrel Consulting, a grant specialist, to assist in identifying and applying for grants and subsidized financing programs.

- The City was awarded a \$10.3 million Planning Loan from California's Clean Water State Revolving Fund (SRF) Financing Program with a subsidized interest rate of 1.7%.
- Morro Bay was as one of 12 communities nationwide invited to apply for low-interest-rate financing from the Water Infrastructure and Financing Innovation Act (WIFIA) funding program administered by the United State Environmental Protection Agency (EPA). WIFIA financing can be used to fund up to 49% of the WRF project cost and has favorable repayment terms including low interest rates. The rate for a long-term WIFIA loan is currently in the 3% range but would not be formally set until final approval is obtained.
- The City was previously awarded a small Recycled Water Planning Feasibility Study Grant.
- The City is pursuing additional financing from Clean Water SRF Financing Program, which offers low-interest-rate loans currently below 2% -- and repayment terms up to 30 years.
- The City has been pursuing grant financing from the United States Bureau of Reclamation.

Any additional grant or subsidized loan financing received would result in lower future debt service and could reduce annual funding needs from future water and sewer charges.

10.Debt Service Estimates

Tables 8A and 8B show debt service estimates under the Base Case and Phase-In Scenarios. Debt service is partially structured around the 10-year repayment term of the SRF Planning Loan to result in level annual future debt service. The debt service estimates for the anticipated WIFIA Loan and projected Revenue Bonds are based on slightly conservative assumptions of interest rates. Interest rates are currently lower but would be established when the WIFIA financing agreement is finalized and when Revenue Bonds are issued.

Table 8A - Base Case: Debt Service Estimates

| | SRF | WIFIA | Revenue | |
|-------------------|---------------|--------------|--------------|--------------|
| | Planning Loan | Loan | Bonds | Total |
| Project Funding | \$10,300,000 | \$60,175,000 | \$24,700,000 | \$95,175,000 |
| Term | 10 Years | 35 Years | 30 Years | All-In TIC |
| Avg Interest Rate | 1.70% | 3.25% | 4.70% | 3.48% |
| Debt Service | | | | |
| Through 2029/30 | \$1,130,000 | \$2,973,000 | \$1,190,000 | \$5,293,000 |
| After 2029/30 | - | \$3,422,000 | \$1,871,000 | \$5,293,000 |

The Phase-In Scenario generates less cash funding for the WRF Project which results in a corresponding increase in debt financing needs from revenue bonds and a resulting increase in debt financing and debt service.

Table 8B - Phase-In: Debt Service Estimates

| | SRF | WIFIA | Revenue | |
|-------------------|---------------|--------------|--------------|--------------|
| | Planning Loan | Loan | Bonds | Total |
| Project Funding | \$10,300,000 | \$60,175,000 | \$29,000,000 | \$99,475,000 |
| Term | 10 Years | 35 Years | 30 Years | All-In TIC |
| Avg Interest Rate | 1.70% | 3.25% | 4.70% | 3.51% |
| Debt Service | | | | |
| Through 2029/30 | \$1,130,000 | \$3,051,000 | \$1,396,000 | \$5,577,000 |
| After 2029/30 | - | \$3,383,000 | \$2,194,000 | \$5,577,000 |

11.Capital Improvement Plans

The City recently collaborated with Carollo Engineers to evaluate and prioritize capital improvement needs to the City's aging water and sewer infrastructure resulting in the development of updated Capital Improvement Plans (CIPs) for the water and sewer utilities. The CIP projects include replacement and rehabilitation of old water and sewer pipelines, water pump stations, sewer lift stations, and water storage tanks. The CIPs are designed to address the highest priority needs the soonest. The City plans to continue evaluating its capital improvement needs and may re-prioritize projects in future years.

Tables 9 and 10 summarize annual water and sewer CIP funding needs. The City plans to fund these improvements on a pay-as-you-go basis with no additional debt. A detailed list of CIP projects and costs is included in the appendix to this report. Note that costs are shown in current dollars.

Table 9 – Water Capital Improvement Plan Summary

| | Near-Term Years 1 - 5 | Mid-Term Years 6 - 10 | Long-Term Through 2040 |
|---------------------|--------------------------|--------------------------|---------------------------|
| CIP Cost Estimates | \$6,788,000 | \$4,977,000 | \$11,586,000 |
| Average Annual Cost | 1,357,600 | 995,400 | 965,500 |

Table 10 – Sewer Capital Improvement Plan Summary

| | Near-Term Years 1 - 5 | Mid-Term Years 6 - 10 | Long-Term Through 2040 |
|---------------------|--------------------------|--------------------------|---------------------------|
| CIP Cost Estimates | \$5,096,000 | \$5,726,000 | \$7,349,000 |
| Average Annual Cost | 1,019,200 | 1,145,200 | 612,417 |

12. Financial Projections

BWA developed 10-year water and sewer utility financial projections to evaluate annual revenue requirements and project rate increases under each of the four financial scenarios. The projections are based on reasonable and slightly conservative assumptions including:

- Operating expenses are based on the 2018/19 preliminary budget.
- Operating costs escalate at the annual rate of 4% per year for planning purposes.
- Future costs for a) wastewater treatment at the new WRF and b) wastewater conveyance to the new WRF, and c) recycled water operations are based on engineering estimates developed by Carollo Engineers and account for future cost inflation.
- The projections assume a low-growth scenario of 5 new single family homes or equivalents per year.
- Water and sewer service charge revenues assume monthly water use remains constant based on usage over the past fiscal year. Note that residential sewer rates and all WRF Facility Surcharges are fixed monthly charges that do not vary with changes in water use.
- Sewer financial projections assume that Cayucos Sanitary District funds 25% of the operating costs of the existing wastewater treatment plant for two more fiscal years through 2019/20 after which Cayucos anticipates transitioning to its own planned treatment facility. Note: The reduction in wastewater flow from Cayucos SD is not projected to result in a significant decrease in operating costs. Most of the wastewater treatment plant's operating and maintenance costs are fixed costs (e.g. staffing) that do not vary with changes in wastewater flow.
- The sewer cash flow projections show how the entire WRF Project is funded and include the full debt service payments which are offset by the debt service paid by the water utility.
- Water and sewer capital improvement plans are funded entirely on a pay-as-you-go basis from revenues generated each year by water and sewer service charges.
- The City has accrued some fund reserves that can eventually be applied toward the WRF Project and anticipates generating additional cash contributions for the project from future rates and WRF Facility Surcharges. BWA recommends the City maintain its water and sewer fund reserves while the WRF Project is being built. The City can draw down a portion of its water and sewer fund reserves during fiscal year 2021/11, the final year of construction. Over the longer-term, the cash flow projections assume the City would maintain at least \$4 million in fund reserves for each utility.

Tables 11A and 12A show 10-year sewer cash flow projections and water cash flow projections under the Base Case Scenario. Tables 11B and 12B show financial projections under the Phase-In Scenario.

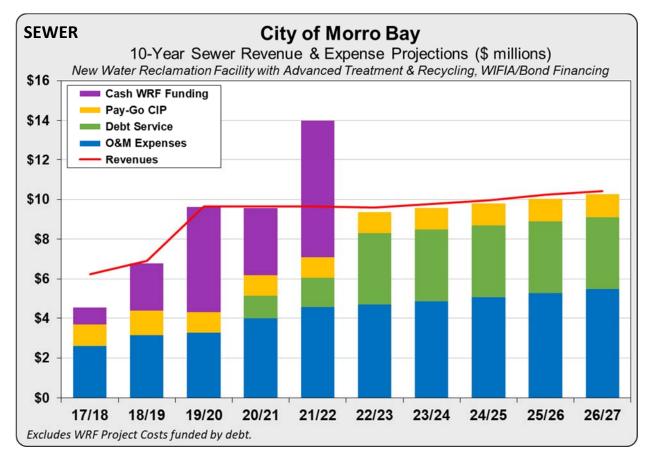
| Table 11A - City of Morro Bay - | Sewer Cash Flo | ow Projection | ns | Base Ca | ase Scenario | |
|---------------------------------------|------------------|------------------|-------------|-------------|--------------|--|
| | Projected | | | | | |
| Years 1 - 5 | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | |
| Monthly Single Family Sewer Charge | \$70.00 | \$77.00 | \$83.00 | \$83.00 | \$83.00 | |
| Monthly Single Family Surcharge | | | \$25.00 | \$25.00 | \$25.00 | |
| Beginning Sewer Accounts | 5,346 | 5,351 | 5,356 | 5,361 | 5,366 | |
| Growth: Single Family Equivalents | 5 | 5 | 5 | 5 | 5 | |
| Growth % | - | 0.1% | 0.1% | 0.1% | 0.19 | |
| Sewer Development Impact Fee | \$5,445 | \$5,550 | \$5,660 | \$5,770 | \$5,890 | |
| Interest Earnings Rate | 1.25% | 1.75% | 2.0% | 2.0% | 2.09 | |
| Cost Escalation | | | 4.0% | 4.0% | 4.0% | |
| Beginning Fund Reserves | \$6,402,000 | \$8,112,000 | \$8,251,000 | \$8,274,000 | \$8,357,000 | |
| REVENUES | | | | | | |
| Sewer Service Charges | 6,100,000 | 6,716,000 | 7,246,000 | 7,253,000 | 7,260,000 | |
| Sewer WRF Facility Surcharges | 0 | 0 | 2,173,000 | 2,173,000 | 2,173,000 | |
| Development Impact Fees | 30,000 | 28,000 | 28,000 | 29,000 | 29,000 | |
| Interest Earnings | 80,000 | 142,000 | 165,000 | 165,000 | 167,000 | |
| Rental Income/Other (Excl Penalties) | 25,000 | 30,000 | 30,000 | 30,000 | 30,000 | |
| Subtotal | 6,235,000 | 6,916,000 | 9,642,000 | 9,650,000 | 9,659,000 | |
| WRF Debt Financing | 3,233,333 | 3,5 = 3,5 = 5 | 2,212,200 | 2,222,222 | 2,222,222 | |
| SRF Planning Loan | | 5,800,000 | 4,500,000 | | | |
| WIFIA Loan | | 3,000,000 | 31,100,000 | 29,075,000 | | |
| Bond Proceeds | | | 31,100,000 | 7,400,000 | 17,300,000 | |
| Bolla i Tocceas | | | | 7,400,000 | 17,300,000 | |
| EXPENSES | | | | | | |
| Operating & Maintenance | <u>Estimated</u> | <u>Projected</u> | | | | |
| Sewer Collection | 1,100,000 | 1,480,000 | 1,539,000 | 1,601,000 | 1,665,000 | |
| Wastewater Treatment Existing | 2,000,000 | 2,210,000 | 2,298,000 | 2,390,000 | 1,247,000 | |
| Wastewater Treatment New WRF | - | - | - | - | 1,500,000 | |
| Conveyance to New WRF | - | - | - | - | 140,000 | |
| Less Cayucos SD Reimbursements | (495,000) | (553,000) | (575,000) | 0 | 0 | |
| Subtotal | 2,605,000 | 3,137,000 | 3,262,000 | 3,991,000 | 4,552,000 | |
| Debt Service | | | | | | |
| SRF Planning Loan | - | - | - | 1,130,000 | 1,130,000 | |
| WIFIA Loan | - | - | - | - | - | |
| Revenue Bonds (structured around SRF) | - | - | - | 595,000 | 1,190,000 | |
| Less Water Share of WRF Debt | | | | (573,000) | (820,000 | |
| Subtotal | 0 | 0 | 0 | 1,152,000 | 1,500,000 | |
| Capital Improvements | | | | | | |
| Sewer Cash Contribution to WRF | 840,000 | 2,390,000 | 5,307,000 | 3,374,000 | 6,898,000 | |
| Sewer System Pay-Go CIP | 630,000 | 1,200,000 | 1,000,000 | 1,000,000 | 1,000,000 | |
| Vehicle/Equipment Replacement | 450,000 | 50,000 | 50,000 | 50,000 | 50,000 | |
| Subtotal | 1,920,000 | 3,640,000 | 6,357,000 | 4,424,000 | 7,948,000 | |
| Total Sewer Expenses | 4,525,000 | 6,777,000 | 9,619,000 | 9,567,000 | 14,000,000 | |
| Revenues Less Expenses | 1,710,000 | 139,000 | 23,000 | 83,000 | (4,341,000 | |
| Ending Fund Reserves | 8,112,000 | 8,251,000 | 8,274,000 | 8,357,000 | 4,016,000 | |
| | | | | | | |

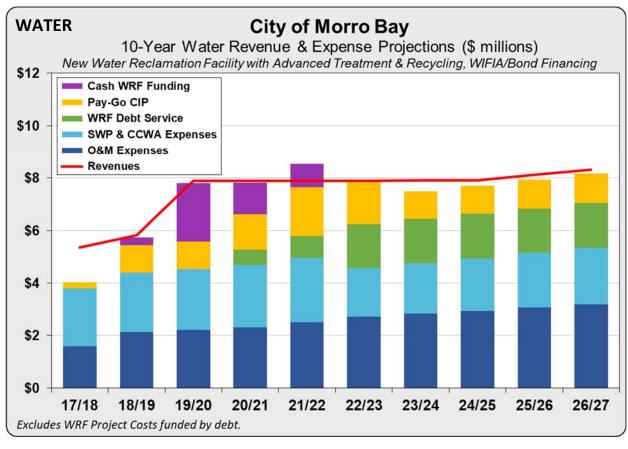
| Table 11A - City of Morro Bay | - Sewer Cash F | low Projection | Base Case Scenario | | |
|--|---|----------------|--------------------|-------------|-------------|
| | | | | | |
| Years 6 - 10 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
| Monthly Residential Sewer Charge | \$83.00 | \$85.00 | \$87.00 | \$90.00 | \$92.00 |
| Monthly Single Family WRF Surcharge | \$25.00 | \$25.00 | \$25.00 | \$25.00 | \$25.00 |
| Beginning Sewer Accounts | 5,371 | 5,376 | 5,381 | 5,386 | 5,391 |
| Growth: Single Family Equivalents | 5 | 5 | 5 | 5 | 5 |
| Growth % | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |
| Sewer Development Impact Fee | \$6,010 | \$6,130 | \$6,250 | \$6,380 | \$6,510 |
| Interest Earnings Rate | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |
| Cost Escalation | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% |
| Beginning Fund Reserves | \$4,016,000 | \$4,245,000 | \$4,445,000 | \$4,604,000 | \$4,802,000 |
| REVENUES | | | | | |
| Sewer Service Charges | 7,267,000 | 7,449,000 | 7,631,000 | 7,901,000 | 8,084,000 |
| Sewer WRF Facility Surcharges | 2,173,000 | 2,173,000 | 2,173,000 | 2,173,000 | 2,173,000 |
| Development Impact Fees | 30,000 | 31,000 | 31,000 | 32,000 | 33,000 |
| Interest Earnings | 86,000 | 91,000 | 95,000 | 98,000 | 102,000 |
| Rental Income/Penalties/Other | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 |
| Subtotal | 9,586,000 | 9,774,000 | 9,960,000 | 10,234,000 | 10,422,000 |
| WRF Debt Financing | | | | | |
| SRF Planning Loan | | | | | |
| WIFIA Financing | | | | | |
| Bond Financing | | | | | |
| EXPENSES Operating & Maintenance | | | | | |
| Sewer Collection | 1,732,000 | 1,801,000 | 1,873,000 | 1,948,000 | 2,026,000 |
| Wastewater Treatment Existing | 0 | 1,801,000 | 1,873,000 | 1,548,000 | 2,020,000 |
| Wastewater Treatment New WRF | 2,682,000 | 2,789,000 | 2,901,000 | 3,017,000 | 3,138,000 |
| Conveyance to New WRF | 277,000 | 288,000 | 300,000 | 312,000 | 324,000 |
| Less Cayucos SD Reimbursements | 277,000 | 288,000 | 0 | 312,000 | 324,000 |
| Subtotal | 4,691,000 | 4,878,000 | 5,074,000 | 5,277,000 | 5,488,000 |
| | 4,031,000 | 4,070,000 | 3,074,000 | 3,277,000 | 3,400,000 |
| Debt Service SRF Planning Loan | 1,130,000 | 1,130,000 | 1,130,000 | 1,130,000 | 1,130,000 |
| WIFIA Financing | 2,973,000 | 2,973,000 | 2,973,000 | 2,973,000 | 2,973,000 |
| Revenue Bonds (structured around SRF) | 1,190,000 | 1,190,000 | 1,190,000 | 1,190,000 | 1,190,000 |
| Less Water Share of WRF Debt | (1,677,000) | (1,677,000) | (1,677,000) | (1,677,000) | (1,677,000) |
| Subtotal | 3,616,000 | 3,616,000 | 3,616,000 | 3,616,000 | 3,616,000 |
| Capital Improvements | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , -, | , -, | , -, | , ,,,,,, |
| Sewer Cash Contribution to WRF | 0 | 0 | 0 | 0 | 0 |
| Sewer System Pay-Go CIP | 1,000,000 | 1,030,000 | 1,061,000 | 1,093,000 | 1,126,000 |
| - | | | | | |
| Vehicle/Equipment Replacement | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| Subtotal | 1,050,000 | 1,080,000 | 1,111,000 | 1,143,000 | 1,176,000 |
| Total Expenses | 9,357,000 | 9,574,000 | 9,801,000 | 10,036,000 | 10,280,000 |
| Revenues Less Expenses | 229,000 | 200,000 | 159,000 | 198,000 | 142,000 |
| Ending Fund Reserves | 4,245,000 | 4,445,000 | 4,604,000 | 4,802,000 | 4,944,000 |
| Debt Service Coverage | 1.35 | 1.35 | 1.35 | 1.37 | 1.36 |

| Table 12A - City of Morro Bay - V | Vater Cash F | low Projecti | Base Case | Base Case Scenario | |
|---|------------------|------------------|-------------|--------------------|-------------|
| | Projected | | | | |
| Years 1 - 5 | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 |
| Fixed Monthly Water Charge | \$28.00 | \$30.00 | \$32.00 | \$32.00 | \$32.00 |
| Fixed Monthly Single Family WRF Surcharge | | | \$16.00 | \$16.00 | \$16.00 |
| Water Rate Adjustment % | | 7.1% | 6.7% | 0.0% | 0.0% |
| Growth: Single Family Equivalents | 5 | 5 | 5 | 5 | 5 |
| Growth % | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |
| Change in Water Sales | | 0.0% | 0.0% | 0.0% | 0.0% |
| Water Development Impact Fee | \$5,392 | \$5,500 | \$5,610 | \$5,720 | \$5,830 |
| Interest Earnings Rate | 1.25% | 1.75% | 2.0% | 2.0% | 2.0% |
| State Water Project Cost Escalation | | | 4.0% | 4.0% | 4.0% |
| Operating Cost Escalation | | | 4.0% | 4.0% | 4.0% |
| Beginning Fund Reserves | \$3,132,000 | \$4,456,000 | \$4,537,000 | \$4,622,000 | \$4,687,000 |
| REVENUES | <u>Estimated</u> | <u>Projected</u> | | | |
| Water Service Charges | 5,280,000 | 5,700,000 | 6,086,000 | 6,092,000 | 6,098,000 |
| Water WRF Facility Surcharges | 0 | 0 | 1,654,000 | 1,654,000 | 1,654,000 |
| Development Impact Fees | 30,000 | 28,000 | 28,000 | 29,000 | 29,000 |
| Interest Earnings | 39,000 | 78,000 | 91,000 | 92,000 | 94,000 |
| Other (Excludes Penalties) | 16,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| Subtotal | 5,365,000 | 5,826,000 | 7,879,000 | 7,887,000 | 7,895,000 |
| EXPENSES | | | | | |
| Operating & Maintenance | <u>Estimated</u> | <u>Projected</u> | | | |
| Water System Operations | 1,591,000 | 2,130,000 | 2,215,000 | 2,304,000 | 2,396,000 |
| State Water Project Payments | 1,535,000 | 1,595,000 | 1,659,000 | 1,725,000 | 1,794,000 |
| Share of CCWA 2016 Bonds (Thru Oct-2021) | 665,000 | 670,000 | 670,000 | 670,000 | 670,000 |
| Recycled Water Operations | - | - | - | - | 110,000 |
| Subtotal | 3,791,000 | 4,395,000 | 4,544,000 | 4,699,000 | 4,970,000 |
| Debt Service | | | | | |
| SRF Planning Loan: Water Share | - | - | - | 326,000 | 326,000 |
| WRF WIFIA Loan: Water Share | - | - | - | - | - |
| WRF Revenue Bonds: Water Share | | | | 247,000 | 494,000 |
| Subtotal | 0 | 0 | 0 | 573,000 | 820,000 |
| Capital Improvements | | | | | |
| Water System Pay-Go CIP | 250,000 | 1,000,000 | 1,000,000 | 1,300,000 | 1,800,000 |
| Water Cash Contribution to WRF | 0 | 300,000 | 2,200,000 | 1,200,000 | 900,000 |
| Vehicle/Equipment Replacement | 0 | 50,000 | 50,000 | 50,000 | 50,000 |
| Subtotal | 250,000 | 1,350,000 | 3,250,000 | 2,550,000 | 2,750,000 |
| Total Expenses | 4,041,000 | 5,745,000 | 7,794,000 | 7,822,000 | 8,540,000 |
| Revenues Less Expenses | 1,324,000 | 81,000 | 85,000 | 65,000 | (645,000) |
| Ending Fund Reserves | 4,456,000 | 4,537,000 | 4,622,000 | 4,687,000 | 4,042,000 |
| CCWA Bond Debt Service Coverage | 1.72 | 1.63 | 2.43 | 2.33 | 2.19 |
| City Debt Service Coverage | - | - | - | 5.56 | 3.57 |

| Table 12A - City of Morro Bay - | Water Cash | Flow Projec | Base Ca | Base Case Scenario | |
|--|-------------|-------------|-------------|--------------------|-------------|
| | Projected | | | | |
| Years 6 - 10 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
| Fixed Monthly Residential Water Charge | \$32.00 | \$32.00 | \$32.00 | \$33.00 | \$34.00 |
| Fixed Monthly Single Family WRF Surchar | \$16.00 | \$16.00 | \$16.00 | \$16.00 | \$16.00 |
| Water Rate Adjustment % | 0.0% | 0.0% | 0.0% | 3.1% | 3.0% |
| Growth: Single Family Equivalents | 5 | 5 | 5 | 5 | 5 |
| Growth % | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |
| Change in Water Sales | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Water Development Impact Fee | \$5,950 | \$6,070 | \$6,190 | \$6,310 | \$6,440 |
| Interest Earnings Rate | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |
| State Water Project Cost Escalation | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% |
| Operating Cost Escalation | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% |
| Beginning Fund Reserves | \$4,042,000 | \$4,031,000 | \$4,442,000 | \$4,647,000 | \$4,825,000 |
| REVENUES | | | | | |
| Water Service Charges | 6,104,000 | 6,110,000 | 6,116,000 | 6,313,000 | 6,510,000 |
| Water WRF Facility Surcharges | 1,654,000 | 1,654,000 | 1,654,000 | 1,654,000 | 1,654,000 |
| Development Impact Fees | 30,000 | 30,000 | 31,000 | 32,000 | 32,000 |
| Interest Earnings | 86,000 | 86,000 | 94,000 | 99,000 | 102,000 |
| Other (Excludes Penalties) | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| Subtotal | 7,894,000 | 7,900,000 | 7,915,000 | 8,118,000 | 8,318,000 |
| EXPENSES | | | | | |
| Operating & Maintenance | | | | | |
| Water System Personnel | 2,492,000 | 2,592,000 | 2,696,000 | 2,804,000 | 2,916,000 |
| State Water Project Payments | 1,866,000 | 1,941,000 | 2,019,000 | 2,100,000 | 2,184,000 |
| Share of CCWA 2016 Bonds (Thru Oct-2021) | 0 | 0 | 0 | 0 | 0 |
| Recycled Water Operations | 220,000 | 229,000 | 238,000 | 248,000 | 258,000 |
| Subtotal | 4,578,000 | 4,762,000 | 4,953,000 | 5,152,000 | 5,358,000 |
| Debt Service | | | | | |
| SRF Planning Loan: Water Share | 326,000 | 326,000 | 326,000 | 326,000 | 326,000 |
| WRF WIFIA Loan: Water Share | 857,000 | 857,000 | 857,000 | 857,000 | 857,000 |
| WRF Revenue Bonds: Water Share | 494,000 | 494,000 | 494,000 | 494,000 | 494,000 |
| Subtotal | 1,677,000 | 1,677,000 | 1,677,000 | 1,677,000 | 1,677,000 |
| Capital Improvements | | | | | |
| Water System Pay-Go CIP | 1,600,000 | 1,000,000 | 1,030,000 | 1,061,000 | 1,093,000 |
| Water Cash Contribution to WRF | 0 | 0 | 0 | 0 | 0 |
| Vehicle/Equipment Replacement | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| Subtotal | 1,650,000 | 1,050,000 | 1,080,000 | 1,111,000 | 1,143,000 |
| Total Expenses | 7,905,000 | 7,489,000 | 7,710,000 | 7,940,000 | 8,178,000 |
| Revenues Less Expenses | (11,000) | 411,000 | 205,000 | 178,000 | 140,000 |
| Ending Fund Reserves | 4,031,000 | 4,442,000 | 4,647,000 | 4,825,000 | 4,965,000 |
| CCWA Bond Debt Service Coverage | _ | _ | _ | - | _ |
| Debt Service Coverage | 1.98 | 1.87 | 1.77 | 1.77 | 1.77 |
| Dest service coverage | 1.30 | 1.07 | 1.// | 1.// | 1.// |

Base Case Scenario





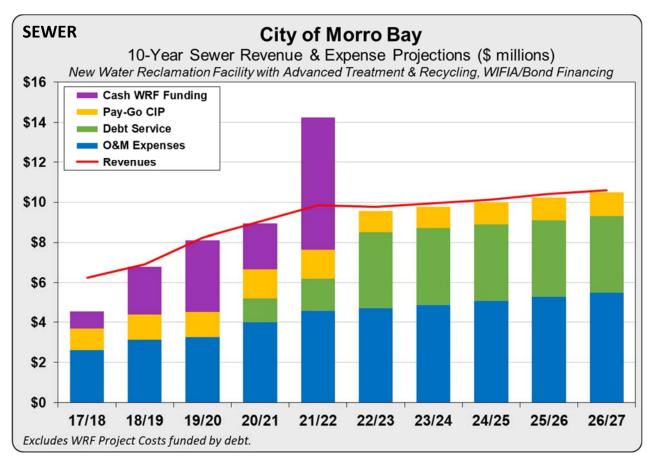
| Table 11B - City of Morro Bay - | Sewer Cash I | Flow Projection | Phase-In Scenario | | | |
|---------------------------------------|------------------|-----------------|-------------------|-------------|-------------|--|
| | | | Projected | | | |
| Years 1 - 5 | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | |
| Monthly Single Family Sewer Charge | \$70.00 | \$77.00 | \$83.00 | \$83.00 | \$83.00 | |
| Monthly Single Family Surcharge | | | \$9.00 | \$18.00 | \$27.00 | |
| Beginning Sewer Accounts | 5,346 | 5,351 | 5,356 | 5,361 | 5,366 | |
| Growth: Single Family Equivalents | 5 | 5 | 5 | 5 | 5 | |
| Growth % | - | 0.1% | 0.1% | 0.1% | 0.1% | |
| Sewer Development Impact Fee | \$5,445 | \$5,550 | \$5,660 | \$5,770 | \$5,890 | |
| Interest Earnings Rate | 1.25% | 1.75% | 2.0% | 2.0% | 2.0% | |
| Cost Escalation | | | 4.0% | 4.0% | 4.0% | |
| Beginning Fund Reserves | \$6,402,000 | \$8,112,000 | \$8,251,000 | \$8,379,000 | \$8,480,000 | |
| REVENUES | | | | | | |
| Sewer Service Charges | 6,100,000 | 6,716,000 | 7,246,000 | 7,253,000 | 7,260,000 | |
| Sewer WRF Facility Surcharges | 0 | 0 | 778,000 | 1,563,000 | 2,347,000 | |
| Development Impact Fees | 30,000 | 28,000 | 28,000 | 29,000 | 29,000 | |
| Interest Earnings | 80,000 | 142,000 | 165,000 | 168,000 | 170,000 | |
| Rental Income/Other (Excl Penalties) | 25,000 | 30,000 | 30,000 | 30,000 | 30,000 | |
| Subtotal | 6,235,000 | 6,916,000 | 8,247,000 | 9,043,000 | 9,836,000 | |
| WRF Debt Financing | | | | | | |
| SRF Planning Loan | | 5,900,000 | 4,400,000 | | | |
| WIFIA Loan | | | 33,800,000 | 26,375,000 | | |
| Bond Proceeds | | | | 11,700,000 | 17,300,000 | |
| EXPENSES | | | | | | |
| Operating & Maintenance | <u>Estimated</u> | Projected | | | | |
| Sewer Collection | 1,100,000 | 1,480,000 | 1,539,000 | 1,601,000 | 1,665,000 | |
| Wastewater Treatment Existing | 2,000,000 | 2,210,000 | 2,298,000 | 2,390,000 | 1,247,000 | |
| Wastewater Treatment New WRF | | _,, | _, | | 1,500,000 | |
| Conveyance to New WRF | _ | _ | _ | _ | 140,000 | |
| Less Cayucos SD Reimbursements | (495,000) | (553,000) | (575,000) | 0 | 0 | |
| Subtotal | 2,605,000 | 3,137,000 | 3,262,000 | 3,991,000 | 4,552,000 | |
| Debt Service | | | | | | |
| SRF Planning Loan | _ | - | _ | 1,130,000 | 1,130,000 | |
| WIFIA Loan | _ | - | _ | - | - | |
| Revenue Bonds (structured around SRF) | - | - | - | 698,000 | 1,396,000 | |
| Less Water Share of WRF Debt | - | - | - | (601,000) | (877,000) | |
| Subtotal | 0 | 0 | 0 | 1,227,000 | 1,649,000 | |
| Capital Improvements | | | | | | |
| Sewer Cash Contribution to WRF | 840,000 | 2,390,000 | 3,607,000 | 2,274,000 | 6,598,000 | |
| Sewer System Pay-Go CIP | 630,000 | 1,200,000 | 1,200,000 | 1,400,000 | 1,400,000 | |
| Vehicle/Equipment Replacement | 450,000 | 50,000 | 50,000 | 50,000 | 50,000 | |
| Subtotal | 1,920,000 | 3,640,000 | 4,857,000 | 3,724,000 | 8,048,000 | |
| Total Sewer Expenses | 4,525,000 | 6,777,000 | 8,119,000 | 8,942,000 | 14,249,000 | |
| Revenues Less Expenses | 1,710,000 | 139,000 | 128,000 | 101,000 | (4,413,000) | |
| Ending Fund Reserves | 8,112,000 | 8,251,000 | 8,379,000 | 8,480,000 | 4,067,000 | |
| Debt Service Coverage | | | | 4.12 | 3.20 | |

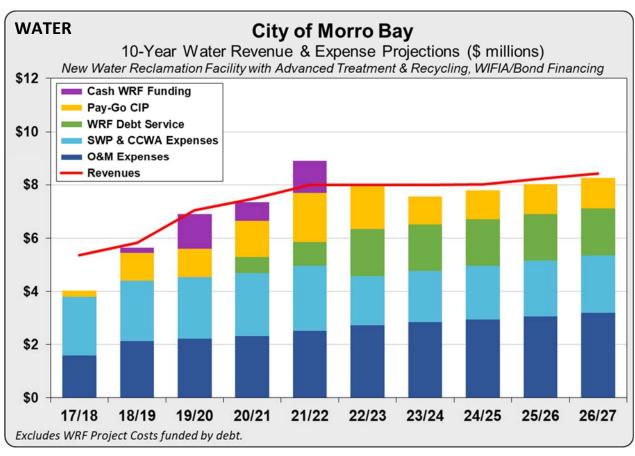
| Table 11B - City of Morro Bay - Sewer Cash Flow Projections | | | | ns Phase-In Scenario | | | |
|---|-------------|-------------|----------------------|----------------------|---------------|--|--|
| | | | | | | | |
| Years 6 - 10 | 2022/23 | 2023/24 | Projected 2024/25 | 2025/26 | 2026/27 | | |
| Monthly Residential Sewer Charge | \$83.00 | \$85.00 | \$87.00 | \$90.00 | \$92.00 | | |
| Monthly Single Family WRF Surcharge | \$27.00 | \$27.00 | \$27.00 | \$27.00 | \$27.00 | | |
| Beginning Sewer Accounts | 5,371 | 5,376 | 5,381 | 5,386 | 5,391 | | |
| Growth: Single Family Equivalents | 5 | 5 | 5 | 5 | 5 | | |
| Growth % | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | | |
| Sewer Development Impact Fee | \$6,010 | \$6,130 | \$6,250 | \$6,380 | \$6,510 | | |
| Interest Earnings Rate | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | | |
| Cost Escalation | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% | | |
| Beginning Fund Reserves | \$4,067,000 | \$4,267,000 | \$4,437,000 | \$4,565,000 | \$4,732,000 | | |
| REVENUES | | | | | | | |
| Sewer Service Charges | 7,267,000 | 7,449,000 | 7,631,000 | 7,901,000 | 8,084,000 | | |
| Sewer WRF Facility Surcharges | 2,347,000 | 2,347,000 | 2,347,000 | 2,347,000 | 2,347,000 | | |
| Development Impact Fees | 30,000 | 31,000 | 31,000 | 32,000 | 33,000 | | |
| Interest Earnings | 87,000 | 91,000 | 94,000 | 97,000 | 100,000 | | |
| Rental Income/Penalties/Other | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | | |
| Subtotal | 9,761,000 | 9,948,000 | 10,133,000 | 10,407,000 | 10,594,000 | | |
| WRF Debt Financing | | | | | | | |
| SRF Planning Loan | | | | | | | |
| WIFIA Financing | | | | | | | |
| Bond Financing | | | | | | | |
| EXPENSES | | | | | | | |
| Operating & Maintenance | | | | | | | |
| Sewer Collection | 1,732,000 | 1,801,000 | 1,873,000 | 1,948,000 | 2,026,000 | | |
| Wastewater Treatment Existing | 0 | 0 | 0 | 0 | 0 | | |
| Wastewater Treatment New WRF | 2,682,000 | 2,789,000 | 2,901,000 | 3,017,000 | 3,138,000 | | |
| Conveyance to New WRF | 277,000 | 288,000 | 300,000 | 312,000 | 324,000 | | |
| Less Cayucos SD Reimbursements | 0 | 0 | 0 | 0 | 0 | | |
| Subtotal | 4,691,000 | 4,878,000 | 5,074,000 | 5,277,000 | 5,488,000 | | |
| Debt Service | | | | | | | |
| SRF Planning Loan | 1,130,000 | 1,130,000 | 1,130,000 | 1,130,000 | 1,130,000 | | |
| WIFIA Financing | 3,051,000 | 3,051,000 | 3,051,000 | 3,051,000 | 3,051,000 | | |
| Revenue Bonds (structured around SRF) | 1,396,000 | 1,396,000 | 1,396,000 | 1,396,000 | 1,396,000 | | |
| Less Water Share of WRF Debt | (1,757,000) | (1,757,000) | (1,757,000) | (1,757,000) | (1,757,000) | | |
| Subtotal | 3,820,000 | 3,820,000 | 3,820,000 | 3,820,000 | 3,820,000 | | |
| Capital Improvements | | | | | | | |
| Sewer Cash Contribution to WRF | 0 | 0 | 0 | 0 | 0 | | |
| Sewer System Pay-Go CIP | 1,000,000 | 1,030,000 | 1,061,000 | 1,093,000 | 1,126,000 | | |
| Vehicle/Equipment Replacement | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | | |
| Subtotal | 1,050,000 | 1,080,000 | 1,111,000 | 1,143,000 | 1,176,000 | | |
| Total Expenses | 9,561,000 | 9,778,000 | 10,005,000 | 10,240,000 | 10,484,000 | | |
| Revenues Less Expenses | 200,000 | 170,000 | 128,000 | 167,000 | 110,000 | | |
| Ending Fund Reserves | 4 267 000 | 4 427 000 | 4 565 000 | 4 722 000 | 4 0 4 2 0 0 0 | | |
| 5 | 4,267,000 | 4,437,000 | 4,565,000 | 4,732,000 | 4,842,000 | | |

| Table 12B - City of Morro Bay - | Water Cash | Flow Project | Phase-In Scenario | | | |
|---|------------------|------------------|-------------------|-------------|-------------|--|
| | | | | | | |
| Years 1 - 5 | 2017/18 | 2018/19 | Projected 2019/20 | 2020/21 | 2021/22 | |
| Fixed Monthly Water Charge | \$28.00 | \$30.00 | \$32.00 | \$32.00 | \$32.00 | |
| Fixed Monthly Single Family WRF Surcharge | 2 | | \$8.00 | \$12.00 | \$17.00 | |
| Water Rate Adjustment % | | 7.1% | 6.7% | 0.0% | 0.0% | |
| Growth: Single Family Equivalents | 5 | 5 | 5 | 5 | 5 | |
| Growth % | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | |
| Change in Water Sales | | 0.0% | 0.0% | 0.0% | 0.0% | |
| Water Development Impact Fee | \$5,392 | \$5,500 | \$5,610 | \$5,720 | \$5,830 | |
| Interest Earnings Rate | 1.25% | 1.75% | 2.0% | 2.0% | 2.0% | |
| State Water Project Cost Escalation | | | 4.0% | 4.0% | 4.0% | |
| Operating Cost Escalation | | | 4.0% | 4.0% | 4.0% | |
| Beginning Fund Reserves | \$3,132,000 | \$4,456,000 | \$4,637,000 | \$4,797,000 | \$4,924,000 | |
| REVENUES | <u>Estimated</u> | <u>Projected</u> | | | | |
| Water Service Charges | 5,280,000 | 5,700,000 | 6,086,000 | 6,092,000 | 6,098,000 | |
| Water WRF Facility Surcharges | 0 | 0 | 827,000 | 1,240,000 | 1,757,000 | |
| Development Impact Fees | 30,000 | 28,000 | 28,000 | 29,000 | 29,000 | |
| Interest Earnings | 39,000 | 78,000 | 93,000 | 96,000 | 98,000 | |
| Other (Excludes Penalties) | 16,000 | 20,000 | 20,000 | 20,000 | 20,000 | |
| Subtotal | 5,365,000 | 5,826,000 | 7,054,000 | 7,477,000 | 8,002,000 | |
| EXPENSES | | | | | | |
| Operating & Maintenance | <u>Estimated</u> | <u>Projected</u> | | | | |
| Water System Operations | 1,591,000 | 2,130,000 | 2,215,000 | 2,304,000 | 2,396,000 | |
| State Water Project Payments | 1,535,000 | 1,595,000 | 1,659,000 | 1,725,000 | 1,794,000 | |
| Share of CCWA 2016 Bonds (Thru Oct-2021) | 665,000 | 670,000 | 670,000 | 670,000 | 670,000 | |
| Recycled Water Operations | | | | | 110,000 | |
| Subtotal | 3,791,000 | 4,395,000 | 4,544,000 | 4,699,000 | 4,970,000 | |
| Debt Service | | | | | | |
| SRF Planning Loan: Water Share | - | - | - | 326,000 | 326,000 | |
| WRF WIFIA Loan: Water Share | - | - | - | - | - | |
| WRF Revenue Bonds: Water Share | <u> </u> | - | | 275,000 | 551,000 | |
| Subtotal | 0 | 0 | 0 | 601,000 | 877,000 | |
| Capital Improvements | | | | | | |
| Water System Pay-Go CIP | 250,000 | 1,000,000 | 1,000,000 | 1,300,000 | 1,800,000 | |
| Water Cash Contribution to WRF | 0 | 200,000 | 1,300,000 | 700,000 | 1,200,000 | |
| Vehicle/Equipment Replacement | 0 | 50,000 | 50,000 | 50,000 | 50,000 | |
| Subtotal | 250,000 | 1,250,000 | 2,350,000 | 2,050,000 | 3,050,000 | |
| Total Expenses | 4,041,000 | 5,645,000 | 6,894,000 | 7,350,000 | 8,897,000 | |
| Revenues Less Expenses | 1,324,000 | 181,000 | 160,000 | 127,000 | (895,000) | |
| Ending Fund Reserves | 4,456,000 | 4,637,000 | 4,797,000 | 4,924,000 | 4,029,000 | |
| CCWA Bond Debt Service Coverage | 1.72 | 1.63 | 2.08 | 2.16 | 2.23 | |
| City Debt Service Coverage | - | - | - | 4.62 | 3.46 | |

| Table 12B - City of Morro Bay - | Water Cash | Flow Projec | Phase-In Scenario | | |
|--|-------------|-------------|-------------------|-------------|-------------|
| | | | | | |
| Years 6 - 10 | 2022/23 | 2023/24 | Projected 2024/25 | 2025/26 | 2026/27 |
| Fixed Monthly Residential Water Charge | \$32.00 | \$32.00 | \$32.00 | \$33.00 | \$34.00 |
| Fixed Monthly Single Family WRF Surchar | \$17.00 | \$17.00 | \$17.00 | \$17.00 | \$17.00 |
| Water Rate Adjustment % | 0.0% | 0.0% | 0.0% | 3.1% | 3.0% |
| Growth: Single Family Equivalents | 5 | 5 | 5 | 5 | 5 |
| Growth % | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |
| Change in Water Sales | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Water Development Impact Fee | \$5,950 | \$6,070 | \$6,190 | \$6,310 | \$6,440 |
| Interest Earnings Rate | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |
| State Water Project Cost Escalation | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% |
| Operating Cost Escalation | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% |
| Beginning Fund Reserves | \$4,029,000 | \$4,041,000 | \$4,475,000 | \$4,704,000 | \$4,906,000 |
| REVENUES | | | | | |
| Water Service Charges | 6,104,000 | 6,110,000 | 6,116,000 | 6,313,000 | 6,510,000 |
| Water WRF Facility Surcharges | 1,757,000 | 1,757,000 | 1,757,000 | 1,757,000 | 1,757,000 |
| Development Impact Fees | 30,000 | 30,000 | 31,000 | 32,000 | 32,000 |
| Interest Earnings | 86,000 | 86,000 | 95,000 | 100,000 | 104,000 |
| Other (Excludes Penalties) | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| Subtotal | 7,997,000 | 8,003,000 | 8,019,000 | 8,222,000 | 8,423,000 |
| EXPENSES | | | | | |
| Operating & Maintenance | | | | | |
| Water System Personnel | 2,492,000 | 2,592,000 | 2,696,000 | 2,804,000 | 2,916,000 |
| State Water Project Payments | 1,866,000 | 1,941,000 | 2,019,000 | 2,100,000 | 2,184,000 |
| Share of CCWA 2016 Bonds (Thru Oct-2021) | 0 | 0 | 0 | 0 | 0 |
| Recycled Water Operations | 220,000 | 229,000 | 238,000 | 248,000 | 258,000 |
| Subtotal | 4,578,000 | 4,762,000 | 4,953,000 | 5,152,000 | 5,358,000 |
| Debt Service | | | | | |
| SRF Planning Loan: Water Share | 326,000 | 326,000 | 326,000 | 326,000 | 326,000 |
| WRF WIFIA Loan: Water Share | 880,000 | 880,000 | 880,000 | 880,000 | 880,000 |
| WRF Revenue Bonds: Water Share | 551,000 | 551,000 | 551,000 | 551,000 | 551,000 |
| Subtotal | 1,757,000 | 1,757,000 | 1,757,000 | 1,757,000 | 1,757,000 |
| Capital Improvements | | | | | |
| Water System Pay-Go CIP | 1,600,000 | 1,000,000 | 1,030,000 | 1,061,000 | 1,093,000 |
| Water Cash Contribution to WRF | 0 | 0 | 0 | 0 | 0 |
| Vehicle/Equipment Replacement | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| Subtotal | 1,650,000 | 1,050,000 | 1,080,000 | 1,111,000 | 1,143,000 |
| Total Expenses | 7,985,000 | 7,569,000 | 7,790,000 | 8,020,000 | 8,258,000 |
| Revenues Less Expenses | 12,000 | 434,000 | 229,000 | 202,000 | 165,000 |
| Ending Fund Reserves | 4,041,000 | 4,475,000 | 4,704,000 | 4,906,000 | 5,071,000 |
| CCWA Bond Debt Service Coverage | - | - | - | - | _ |
| Debt Service Coverage | 1.95 | 1.84 | 1.75 | 1.75 | 1.74 |
| | 55 | | , 5 | , 5 | =.,, . |

Phase-In Scenario





13. Debt Service Coverage

Tables 13A and 13B show projected debt service coverage independently for the sewer and water utilities as well as combined coverage for both utilities under the Base Case and Phase-In Scenarios. Debt service coverage is calculated based on Net Revenues – defined as total revenues less operating and maintenance expenses – divided by annual debt service. Additional funding generated after paying debt service is available to help fund the City's water and sewer CIP projects.

Table 13A - Base Case: Debt Service Coverage

| | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| SEWER | | | | | |
| Net Revenues | \$4,895,000 | \$4,896,000 | \$4,886,000 | \$4,957,000 | \$4,934,000 |
| Debt Service | 3,616,000 | 3,616,000 | 3,616,000 | 3,616,000 | 3,616,000 |
| Debt Service Coverage | 1.35 | 1.35 | 1.35 | 1.37 | 1.36 |
| Add'l Funding Generated | 1,279,000 | 1,280,000 | 1,270,000 | 1,341,000 | 1,318,000 |
| WATER | | | | | |
| Net Revenues | \$3,316,000 | \$3,138,000 | \$2,962,000 | \$2,966,000 | \$2,960,000 |
| Debt Service | 1,677,000 | 1,677,000 | 1,677,000 | 1,677,000 | 1,677,000 |
| Debt Service Coverage | 1.98 | 1.87 | 1.77 | 1.77 | 1.77 |
| Add'l Funding Generated | 1,639,000 | 1,461,000 | 1,285,000 | 1,289,000 | 1,283,000 |
| COMBINED | | | | | |
| Net Revenues | \$8,211,000 | \$8,034,000 | \$7,848,000 | \$7,923,000 | \$7,894,000 |
| Debt Service | 5,293,000 | 5,293,000 | 5,293,000 | 5,293,000 | 5,293,000 |
| Debt Service Coverage | 1.55 | 1.52 | 1.48 | 1.50 | 1.49 |
| Add'l Funding Generated | 2,918,000 | 2,741,000 | 2,555,000 | 2,630,000 | 2,601,000 |

Table 13B – Phase-In: Debt Service Coverage

| | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| SEWER | | | | | |
| Net Revenues | \$5,070,000 | \$5,070,000 | \$5,059,000 | \$5,130,000 | \$5,106,000 |
| Debt Service | 3,820,000 | 3,820,000 | 3,820,000 | 3,820,000 | 3,820,000 |
| Debt Service Coverage | 1.33 | 1.33 | 1.32 | 1.34 | 1.34 |
| Add'l Funding Generated | 1,250,000 | 1,250,000 | 1,239,000 | 1,310,000 | 1,286,000 |
| WATER | | | | | |
| Net Revenues | \$3,419,000 | \$3,241,000 | \$3,066,000 | \$3,070,000 | \$3,065,000 |
| Debt Service | 1,757,000 | 1,757,000 | 1,757,000 | 1,757,000 | 1,757,000 |
| Debt Service Coverage | 1.95 | 1.84 | 1.75 | 1.75 | 1.74 |
| Add'l Funding Generated | 1,662,000 | 1,484,000 | 1,309,000 | 1,313,000 | 1,308,000 |
| COMBINED | | | | | |
| Net Revenues | \$8,489,000 | \$8,311,000 | \$8,125,000 | \$8,200,000 | \$8,171,000 |
| Debt Service | 5,577,000 | 5,577,000 | 5,577,000 | 5,577,000 | 5,577,000 |
| Debt Service Coverage | 1.52 | 1.49 | 1.46 | 1.47 | 1.47 |
| Add'l Funding Generated | 2,912,000 | 2,734,000 | 2,548,000 | 2,623,000 | 2,594,000 |

14. Sewer WRF Facility Surcharges

Tables 14A and 14B show proposed sewer WRF Facility Surcharges under the Base Case and Phase-In Scenarios. These surcharges would be levied as separate surcharges in addition to the City's previously-adopted sewer rates. The surcharges maintain the same rate structure as the City's existing sewer rates. Residential surcharges are fixed monthly surcharges and Non-Residential surcharges are volumetric rates applied to monthly water use — with higher charges for customer classes with higher wastewater strength — subject to a minimum charge as shown.

Table 14A – Base Case: Proposed Monthly Sewer WRF Facility Surcharges

| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
|--------------------------------------|---------|---------|---------|---------|---------|
| RESIDENTIAL | | | | | |
| Charge per residential dwelling unit | | | | | |
| Single Family | | \$25.00 | \$25.00 | \$25.00 | \$25.00 |
| Multi-Family/Condo | | 20.00 | 20.00 | 20.00 | 20.00 |
| NON-RESIDENTIAL | | | | | |
| Rate per hcf of metered water use | | | | | |
| Class A - Low Strength | | \$3.43 | \$3.43 | \$3.43 | \$3.43 |
| Class B - Domestic Strength | | 4.10 | 4.10 | 4.10 | 4.10 |
| Class C - Moderate Strength | | 4.77 | 4.77 | 4.77 | 4.77 |
| Class D - Mod-High Strength | | 5.43 | 5.43 | 5.43 | 5.43 |
| Class E - High Strength | | 6.77 | 6.77 | 6.77 | 6.77 |
| Minimum Monthly Charge | | 20.00 | 20.00 | 20.00 | 20.00 |

Table 14B – Phase-In: Proposed Monthly Sewer WRF Facility Surcharges

| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
|--------------------------------------|---------|---------|---------|---------|---------|
| RESIDENTIAL | | | | | |
| Charge per residential dwelling unit | | | | | |
| Single Family | | \$9.00 | \$18.00 | \$27.00 | \$27.00 |
| Multi-Family/Condo | | 7.20 | 14.40 | 21.60 | 21.60 |
| NON-RESIDENTIAL | | | | | |
| Rate per hcf of metered water use | | | | | |
| Class A - Low Strength | | \$1.24 | \$2.47 | \$3.71 | \$3.71 |
| Class B - Domestic Strength | | 1.48 | 2.95 | 4.43 | 4.43 |
| Class C - Moderate Strength | | 1.72 | 3.43 | 5.15 | 5.15 |
| Class D - Mod-High Strength | | 1.96 | 3.91 | 5.87 | 5.87 |
| Class E - High Strength | | 2.44 | 4.87 | 7.31 | 7.31 |
| Minimum Monthly Charge | | 7.20 | 14.40 | 21.60 | 21.60 |

15. Water WRF Facility Surcharges

Tables 15A and 15B show proposed water WRF Facility Surcharges under the Base Case and Phase-In Scenarios. Again, these surcharges would be levied in addition to the City's previously-adopted water rates. Residential surcharges are fixed monthly surcharges and Non-Residential surcharges are volumetric rates applied to monthly water use, subject to a minimum charge as shown.

Table 15A - Base Case: Proposed Monthly Water WRF Facility Surcharges

| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
|--------------------------------------|---------|---------|---------|---------|---------|
| RESIDENTIAL | | | | | |
| Charge per residential dwelling unit | | | | | |
| Single Family | | \$16.00 | \$16.00 | \$16.00 | \$16.00 |
| Multi-Family/Condo | | 12.80 | 12.80 | 12.80 | 12.80 |
| NON-RESIDENTIAL | | | | | |
| Rate per hcf of metered water use | | | | | |
| Surcharge on all water use | | \$3.64 | \$3.64 | \$3.64 | \$3.64 |

Table 15B – Phase-In: Proposed Monthly Water WRF Facility Surcharges

| 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
|---------|---------|---------|-----------------------------|---|
| | | | | |
| | | | | |
| | \$8.00 | \$12.00 | \$17.00 | \$17.00 |
| | 6.40 | 9.60 | 13.60 | 13.60 |
| | \$1.82 | \$2.73 | \$3.87 | \$3.87 |
| | 2018/19 | \$8.00 | \$8.00 \$12.00 6.40 9.60 | \$8.00 \$12.00 \$17.00 6.40 9.60 13.60 |

16. Previously-Adopted Water & Sewer Rates

As of July 1, 2018, the City will have implemented 4 of the 5 years of previously-adopted rate increases. The final rate increase – scheduled to become effective July 1, 2019 – equates to a roughly 7.5% increase for a typical single family home with 5 hcf monthly water use. The adopted rates were originally designed to generate some funding for the WRF Project. Funding from the City's regular water and sewer rates will supplement the WRF Facility Surcharges, which will recover most of the costs for WRF-related debt service. Based on the financial projections, if the WRF Facility Surcharges are adopted, then no additional water or sewer rate increases – above those previously adopted – would likely need to be implemented over at least the next 5 years. However, the City should periodically evaluate its utility rates in future years to ensure future rates continue to recover the cost of providing service and each utility continues to meet its future financial obligations.

Table 16 - Adopted Monthly Water Rates

| | | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
|---|--------------------|---------|---------|---------|---------------|---------|
| | | Adopted | Adopted | No | Change Projec | ted |
| Fixed Monthly Charge | | \$30.00 | \$32.00 | \$32.00 | \$32.00 | \$32.00 |
| Water Quantity Ch | arges | | | | | |
| Billed per 100 cubic feet of metered water use (\$/hcf) | | | | | | |
| <u>Tier</u> | <u>Use in Tier</u> | | | | | |
| Tier 1 | 0 - 3 hcf | \$5.50 | \$6.00 | \$6.00 | \$6.00 | \$6.00 |
| Tier 2 | 4 - 10 hcf | 8.00 | 8.50 | 8.50 | 8.50 | 8.50 |
| Tier 3 | 11- 50 hcf | 10.50 | 11.00 | 11.00 | 11.00 | 11.00 |
| Tier 4 | >50 hcf | 13.50 | 14.00 | 14.00 | 14.00 | 14.00 |

Table 17 – Adopted Monthly Sewer Rates

| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
|--------------------------------------|---------|---------|---------|---------------|---------|
| | Adopted | Adopted | No | Change Projec | ted |
| RESIDENTIAL | | | | | |
| Charge per residential dwelling unit | | | | | |
| Single Family | \$77.00 | \$83.00 | \$83.00 | \$83.00 | \$83.00 |
| Multi-Family/Condo | 61.60 | 66.40 | 66.40 | 66.40 | 66.40 |
| NON-RESIDENTIAL | | | | | |
| Rate per hcf of metered water use | | | | | |
| Class A - Low Strength | \$10.57 | \$11.40 | \$11.40 | \$11.40 | \$11.40 |
| Class B - Domestic Strength | 12.67 | 13.61 | 13.61 | 13.61 | 13.61 |
| Class C - Moderate Strength | 14.89 | 15.82 | 15.82 | 15.82 | 15.82 |
| Class D - Mod-High Strength | 17.13 | 18.03 | 18.03 | 18.03 | 18.03 |
| Class E - High Strength | 21.36 | 22.46 | 22.46 | 22.46 | 22.46 |
| Minimum Monthly Charge | 61.60 | 66.40 | 66.40 | 66.40 | 66.40 |

17. Bill Impacts

The following charts and tables show the total combined billing impacts – with full implementation of previously-adopted water and sewer rates and the proposed WRF Surcharges – on single family homes at different levels of monthly water use under the Base Case Scenario. Impacts on a range of other customer classes under the Base Case Scenario are included in the appendix.



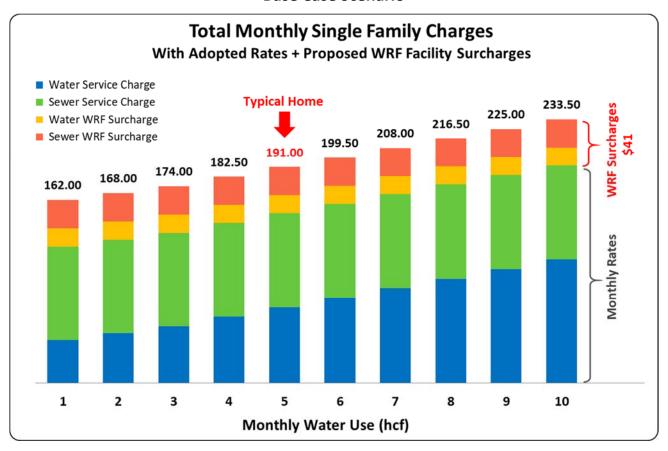


Table 18A – Base Case: Total Combined Bill with Adopted Rates + Proposed WRF Surcharges

Single Family Home at Different Levels of Use

| | Monthly Water Use (hcf) | | | | | | | | | |
|----------------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Water Service Charge | \$38.00 | \$44.00 | \$50.00 | \$58.50 | \$67.00 | \$75.50 | \$84.00 | \$92.50 | \$101.00 | \$109.50 |
| Sewer Service Charge | 83.00 | 83.00 | 83.00 | <u>83.00</u> | <u>83.00</u> | <u>83.00</u> | 83.00 | <u>83.00</u> | <u>83.00</u> | <u>83.00</u> |
| Subtotal | 121.00 | 127.00 | 133.00 | 141.50 | 150.00 | 158.50 | 167.00 | 175.50 | 184.00 | 192.50 |
| Water WRF Surcharge | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 |
| Sewer WRF Surcharge | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> |
| Subtotal | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 |
| Combined Total | 162.00 | 168.00 | 174.00 | 182.50 | 191.00 | 199.50 | 208.00 | 216.50 | 225.00 | 233.50 |

The following charts and tables show the total combined billing impacts – with full implementation of previously-adopted water and sewer rates and the proposed WRF Facility Surcharges – on single family homes at different levels of monthly water use under the Phase-In Scenario. Impacts on a range of other customer classes under the Phase-In Scenario are included in the appendix.



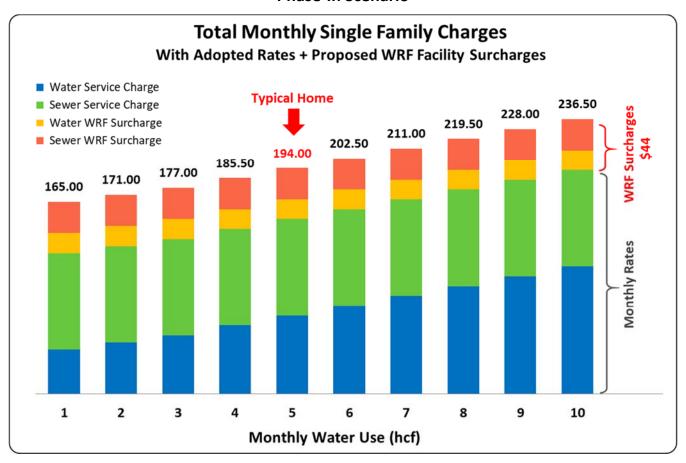


Table 18B – Phase In: Total Combined Bill with Adopted Rates + Proposed WRF Surcharges
Single Family Home at Different Levels of Use

| | Monthly Water Use (hcf) | | | | | | | | | |
|----------------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Water Service Charge | \$38.00 | \$44.00 | \$50.00 | \$58.50 | \$67.00 | \$75.50 | \$84.00 | \$92.50 | \$101.00 | \$109.50 |
| Sewer Service Charge | 83.00 | 83.00 | 83.00 | <u>83.00</u> | <u>83.00</u> | <u>83.00</u> | 83.00 | 83.00 | 83.00 | <u>83.00</u> |
| Subtotal | 121.00 | 127.00 | 133.00 | 141.50 | 150.00 | 158.50 | 167.00 | 175.50 | 184.00 | 192.50 |
| Water WRF Surcharge | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 |
| Sewer WRF Surcharge | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> | <u>25.00</u> |
| Subtotal | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 |
| Combined Total | 162.00 | 168.00 | 174.00 | 182.50 | 191.00 | 199.50 | 208.00 | 216.50 | 225.00 | 233.50 |

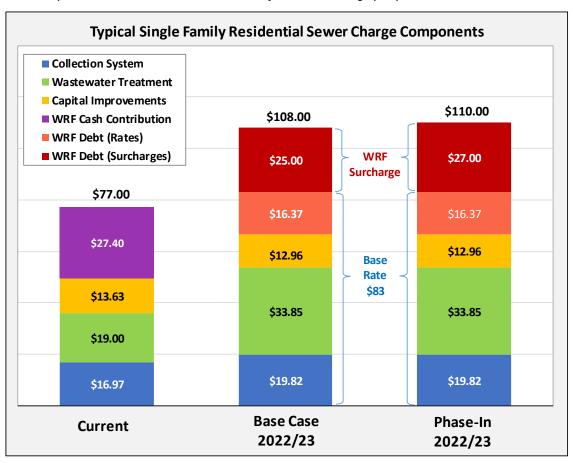
18. Sewer Rate & WRF Surcharge Cost Recovery

Table 19 shows and estimated breakdown of the cost components of monthly sewer charges for a typical single family home with 5 units (hcf) monthly water use. The table compares current charges vs. charges in 2022/23 with full implementation of adopted rates and the WRF Facility Surcharge.

Table 19 - Sewer Rate Components

| | Current 2018/19 | Base Case 2022/23 | Phase-In 2022/23 |
|--------------------------------------|--------------------|----------------------|---------------------|
| Base Monthly Sewer Rate | | | |
| Sewer Collection System O&M | \$16.97 | \$19.82 | \$19.82 |
| Wastewater Treatment O&M* | 19.00 | 33.85 | 33.85 |
| WRF Debt Service: Sewer Rates | 0.00 | 16.37 | 16.37 |
| Sewer CIP/Equipment/Other | 13.63 | 12.96 | 12.96 |
| WRF Cash Contribution | <u>27.40</u> | 0.00 | <u>0.00</u> |
| Subotal Base Sewer Rate | 77.00 | 83.00 | 83.00 |
| WRF Surcharge (for WRF Debt Service) | 0.00 | 25.00 | 27.00 |
| Total | 77.00 | 83.00 | 83.00 |

^{*} Current year wastewater treatment O&M is net of 25% cost-sharing by Cayucos SD



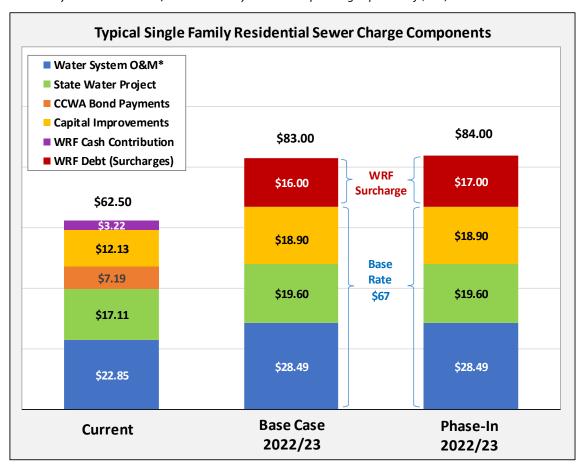
19. Water Rate & WRF Surcharge Cost Recovery

Table 20 shows and estimated breakdown of the cost components of monthly water charges for a typical single family home with 5 units (hcf) monthly water use. The table compares current charges vs. charges in 2022/23 with full implementation of adopted rates and the WRF Facility Surcharge.

Table 20 – Water Rate Components

| | Current 2018/19 | Base Case 2022/23 | Phase-In 2022/23 |
|--------------------------------------|--------------------|----------------------|---------------------|
| Base Monthly Water Rate | | · | · |
| Water System O&M* | \$22.85 | \$28.49 | \$28.49 |
| State Water Project Expenses | 17.11 | 19.60 | 19.60 |
| CCWA Bond Payments | 7.19 | 0.00 | 0.00 |
| Water CIP/Equipment/Other | 12.13 | 18.90 | 18.90 |
| WRF Cash Contribution | <u>3.22</u> | <u>0.00</u> | <u>0.00</u> |
| Subtotal Water Rate | 62.50 | 67.00 | 67.00 |
| WRF Surcharge (for WRF Debt Service) | 0.00 | 16.00 | 17.00 |
| Total | 62.50 | 83.00 | 84.00 |

^{*} Water System O&M in 2022/23 includes recycled water operating expenses of \$220,000.



20. Billing Options for WRF Facility Surcharges

The City currently bills customers monthly via a combined utility bill for water and sewer service. The City is considering two methods of bill collection for recovering the WRF Facility Surcharges, including:

- Monthly Billing Add the WRF Facility Surcharges as a new line-item in the monthly bills.
- **Property Tax Rolls** Recover the proposed WRF Facility Surcharges on the property tax rolls.

The WRF Facility Surcharges would be the same under both alternatives; only the method of billing and collection would vary. For a single family home, adding the surcharges to the property tax rolls, would result in two payments of roughly \$250 that would be added to the semi-annual property tax assessments. Table 20 shows the timing of payments for WRF Facility Surcharges under the Base Case and Phase-In Scenarios with full implementation of the surcharges. Non-residential customers could be billed on the property tax rolls based on usage from the immediately-prior 12-month period.

Table 20 – Example of Single Family WRF Surcharges Collected with Property Taxes

| | Annual Total | December Installment 1 | April Installment 2 |
|-------------------------|-----------------|---------------------------|------------------------|
| WRF Facility Surcharges | | | |
| Base Case Scenario | \$492.00 | \$246.00 | \$246.00 |
| Phase-In Scenario | 528.00 | 264.00 | 264.00 |

While there are some administrative differences for billing and collecting the WRF Facility Surcharges under the two billing options, the main difference is who will bear the financial burden of paying the surcharges: ratepayers or property owners. Note than many ratepayers are also property owners and would be the same people paying the same surcharges regardless of billing method. However, the City does serve a number of tenants who currently pay utility bills for their rental units.

Some potential pros, cons, and issues related to collecting the WRF Facility Surcharges on the property tax rolls include:

• In many (but not all) cases, property owners own substantial equity in their homes, whereas many renters do not have such equity and/or may not be able to afford to purchase a home. Hence billing the WRF Facility Surcharges via the property tax rolls would put the burden on a group that generally has more financial asset than renters. At the same time, there are number of homeowners who – although they may have substantial equity in their home – are also living on fixed incomes.

- The new WRF facility benefits homeowners by preserving property value with access to safe and reliable wastewater service.
- Adding the WRF Facility Surcharges to the combined monthly water and sewer bill could
 potentially result in an uptick in delinquencies. However, delinquencies can be ultimately
 recovered by placing a lien on the property, which results in the charge being put back on the
 property tax rolls in case of extreme delinquency.
- San Luis Obispo County is on the Teeter Plan and pays agencies for 100% of assessments or charges placed on the property tax rolls for collection, regardless of actual delinquencies. The County has indicated that if delinquencies exceed 3%, then the County retains the authority to end the Teeter Plan practice and instead provide only actual amounts collected. However, the County has never done this in the past.
- The cost of placing the surcharges on the property tax rolls currently costs \$2 per parcel and is roughly estimated to cost a total of about \$11,000 per year.
- Placing the surcharges on the tax roll would require the City Council to pass a Resolution adopting a schedule of charges to be levied on all affected properties by Assessor's Parcel Number (APN) each year. If the Resolution was not adopted, the charges could not be assessed on the property tax rolls. However, this does not mean that the City could not recover the charge, it would simply change the method of collection and would require the City to add the surcharges to the monthly bills instead.
- Regardless of the billing approach, the City would be under legal covenant to adopt rates and charges as needed to repay debt service, meet debt service coverage requirements, and meet other legal obligations.
- Collecting sewer charges on the property tax rolls would also result in a change in timing of
 receiving revenues. The County generally sends agencies payments twice per year (in
 December and April) based on actual tax collections. Subsequently, at the end of the fiscal
 year, the County does a true-up and would send the City the remainder of amounts billed on
 the tax rolls regardless of delinquencies. The County subsequently deals with the
 delinquencies and keeps any funds recovered from the delinquent properties including any
 penalties.
- If the City opted to collected the WRF Facility Surcharges on the property tax rolls, due to the change in timing of revenues, the City may need to strategically determine the payment dates for future debt service payments to ensure the debt payments are due after the City receives payment from the County in December and April.

In order to recover the WRF Facility Surcharges via the property tax rolls, the City would need to follow the process identified in the California Health and Safety Code Section 5470 – 5474, attached as an appendix to this report. The process is similar to the Proposition 218 process required for increasing utility rates and could be done concurrently when the City goes through the Proposition 218 rate increase process for potential water and sewer rate increases.